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Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains at Yelahanka Old Town SC/ST area and AD colony and surrounding in Ward No. 02 of Yelahanka Sub division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2020-03-18-06 **Date: 15-11-19**

Project Name : Improvements to Roads and Drains at Yelahanka Old Town SC/ST area and AD colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/153/2019-20

Date of Receipt : 11-11-19

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 12-11-19

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.76	–
2	Finess by Air permeablity method (m^2/kg,Min)	275.8	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

)	:	CP-2020-03-18-06 **Date: 10-12-19**
:t Name	:	Improvements to Roads and Drains at Yelahanka Old Town SC/ST area and AD colony and surrounding areas in Ward No. 02 of Yelahanka Sub division
:y	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010
mer's Reference	:	BBMP/EE/YNK.D/W.O/153/2019-20
of Receipt	:	11-11-19
le Type	:	Birla Super 53grade
ence to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
of test	:	12-11-19
onmental Conditions during	:	Temperature: 26°C Humidity: 72%

Compressive Strength

	Physical properties	Results	Requirement as per IS 12269: 2013
	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
	28 Days	58.0N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

b ID : CP-2020-03-18-06 Date: 13-11-19

YSICAL PROPERTIES

SL.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.46	–
5	Bulk Density(Compacted) (Kg/l)	1.53	–
6	Water Absorption(%)	0.24	–
7	Aggregate crushing Value(%)	23.7	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF PRECAST COVER SLAB

: CP-2020-03-18-06

Date: 26-11-19

me : Improvements to Roads and Drains at Yelahanka Old Town SC/ST area and AD colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

: M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

s Reference : BBMP/EE/YNK.D/W.O/153/2019-20

ceipt : 22-11-19

pe /Size : Precast Cover Slab(100mm)

o BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

t : 22/11/2019

dentification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
Cover Slab-1	75.52	100.49	1.118	4478	80.7	18.0	16.8	20.9
Cover Slab-2	75.48	100.51	1.124	4474	82.5	18.4	17.2	21.4
Cover Slab-3	75.52	100.50	1.116	4478	81.7	18.2	17.0	21.2

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Authorized Signatory
Quality Manager

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: 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-03-18-06 **Date: 26/11/2019**

ame : Improvements to Roads and Drains at Yelahanka Old Town SC/ST area and AD colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

: M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

r's Reference : BBMP/EE/YNK.D/W.O/153/2019-20

Receipt : 21-11-19

er ID : Drain Bottom Slab Concrete

Type /Size : 150X150X150 mm

grade/Age : M20 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 26/11/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	149.72 X 150.93 X 150.52	22598	8.976	429.1	19.0	18.7
Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	149.60 X 150.49 X 149.77	22513	8.846	419.2	18.6	
Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	150.57 X 151.04 X 149.09	22741	8.269	420.9	18.5	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-01-10-33 **Date: 17/12/2019**

ame : Improvements to Roads and Drains at Yelahanka Old Town SC/ST area and AD colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

: M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

r's Reference : BBMP/EE/YNK.D/W.O/153/2019-20

eceipt : 21-11-19

r ID : Drain Bottom Slab Concrete

Type /Size : 150X150X150 mm

rade/Age : M20 / 28 Days Compressive Strength

e to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

est : 17/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete	M20	19/11/2019	17/12/2019	149.73 X 150.65 X 149.28	22557	8.756	540.8	24.0	23.2
Drain Bottom Slab Concrete	M20	19/11/2019	17/12/2019	150.12 X 149.79 X 150.96	22487	8.285	503.4	22.4	
Drain Bottom Slab Concrete	M20	19/11/2019	17/12/2019	150.06 X 150.04 X 150.91	22515	8.292	521.4	23.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-01-10-33

Date: 17/12/2019

Name : Improvements to Roads and Drains at Yelahanka Old Town SC/ST area and AD colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

: M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

er's Reference : BBMP/EE/YNK.D/W.O/153/2019-20

Receipt : 21-11-19

er ID : Drain Bottom Slab Concrete

Type /Size : 150X150X150 mm

grade/Age : M20 / 28 Days Compressive Strength

ace to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

f test : 17/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete	M20	19/11/2019	17/12/2019	149.02 X 149.43 X 149.58	22269	8.756	532.0	23.9	23.2
Drain Bottom Slab Concrete	M20	19/11/2019	17/12/2019	151.58 X 150.04 X 150.58	22743	8.285	504.4	22.2	
Drain Bottom Slab Concrete	M20	19/11/2019	17/12/2019	149.13 X 151.16 X 149.17	22543	8.292	528.1	23.4	

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-03-18-06

Date: 30/11/2019

e : Improvements to Roads and Drains at Yelahanka Old Town SC/ST area and AD colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

: M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Reference : BBMP/EE/YNK.D/W.O/153/2019-20

eipt : 25-11-19

D : Drain Side Wall Concrete

e /Size : 150X150X150 mm

de/Age : M20 / 7 Days Compressive Strength

o BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 30/11/2019

entification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
rain Side Wall Concrete	M20	23/11/2019	30/11/2019	151.44 X 151.84 X 149.66	22995	8.976	422.2	18.4	18.7
rain Side Wall Concrete	M20	23/11/2019	30/11/2019	150.82 X 151.47 X 149.13	22844	8.846	432.3	18.9	
rain Side Wall Concrete	M20	23/11/2019	30/11/2019	150.50 X 150.99 X 150.14	22724	8.269	426.5	18.8	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-01-10-33

Date: 21/12/2019

me : Improvements to Roads and Drains at Yelahanka Old Town SC/ST area and AD colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

: M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

s Reference : BBMP/EE/YNK.D/W.O/153/2019-20

ceipt : 25-11-19

ID : Drain Side Wall Concrete

ype /Size : 150X150X150 mm

ade/Age : M20 / 28 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

st : 21/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	23/11/2019	21/12/2019	149.50 X 150.88 X 150.32	22556	8.756	525.4	23.3	22.9
Drain Side Wall Concrete	M20	23/11/2019	21/12/2019	149.13 X 151.42 X 149.31	22581	8.285	503.0	22.3	
Drain Side Wall Concrete	M20	23/11/2019	21/12/2019	151.90 X 149.10 X 151.84	22647	8.292	524.6	23.2	

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Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE
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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-01-10-33

Date: 21/12/2019

me : Improvements to Roads and Drains at Yelahanka Old Town SC/ST area and AD colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

: M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

s Reference : BBMP/EE/YNK.D/W.O/153/2019-20

ceipt : 25-11-19

ID : Drain Side Wall Concrete

ype /Size : 150X150X150 mm

rade/Age : M20 / 28 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

st : 21/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	23/11/2019	21/12/2019	149.93 X 149.56 X 150.45	22423	8.756	517.5	23.1	23.1
Drain Side Wall Concrete	M20	23/11/2019	21/12/2019	149.80 X 150.22 X 151.99	22503	8.285	515.5	22.9	
Drain Side Wall Concrete	M20	23/11/2019	21/12/2019	151.94 X 151.60 X 149.94	23035	8.292	533.7	23.2	

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-01-10-33

Date: 21/12/2019

e : Improvements to Roads and Drains at Yelahanka Old Town SC/ST area and AD colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

: M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Reference : BBMP/EE/YNK.D/W.O/153/2019-20

ipt : 25-11-19

D : Drain Side Wall Concrete

e /Size : 150X150X150 mm

de/Age : M20 / 28 Days Compressive Strength

o BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 21/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
rain Side Wall Concrete	M20	23/11/2019	21/12/2019	150.07 X 151.71 X 151.70	22767	8.756	527.1	23.2	23.2
Drain Side Wall Concrete	M20	23/11/2019	21/12/2019	151.35 X 150.34 X 149.08	22754	8.285	521.7	22.9	
Drain Side Wall Concrete	M20	23/11/2019	21/12/2019	151.56 X 149.21 X 151.44	22614	8.292	534.1	23.6	

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-01-10-33

Date: 21/12/2019

: Improvements to Roads and Drains at Yelahanka Old Town SC/ST area and AD colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

: M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Reference : BBMP/EE/YNK.D/W.O/153/2019-20

ipt : 25-11-19

) : Drain Side Wall Concrete

e /Size : 150X150X150 mm

ge/Age : M20 / 28 Days Compressive Strength

o BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 21/12/2019

entification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
rain Side Wall Concrete	M20	23/11/2019	21/12/2019	150.72 X 149.91 X 151.52	22594	8.756	523.1	23.2	23.4
rain Side Wall Concrete	M20	23/11/2019	21/12/2019	149.36 X 151.96 X 150.77	22696	8.285	521.3	23.0	
Drain Side Wall Concrete	M20	23/11/2019	21/12/2019	149.61 X 151.39 X 149.08	22649	8.292	542.1	23.9	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-03-18-06

Date: 06/12/2019

: Improvements to Roads and Drains at Yelahanka Old Town SC/ST area and AD colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

: M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

eference : BBMP/EE/YNK.D/W.O/153/2019-20

t : 02-12-19

: Culvert Side Wall Concrete

/Size : 150X150X150 mm

/Age : M20 / 7 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 06/12/2019

tification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
vert Side Wall Concrete	M20	29/11/2019	06/12/2019	150.84 X 152.00 X 149.29	22928	8.976	418.7	18.3	18.3
vert Side Wall Concrete	M20	29/11/2019	06/12/2019	149.43 X 151.55 X 150.70	22646	8.846	410.3	18.1	
vert Side Wall Concrete	M20	29/11/2019	06/12/2019	149.35 X 150.30 X 149.63	22448	8.269	413.3	18.4	

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-03-18-06 **Date: 10/12/2019**

: Improvements to Roads and Drains at Yelahanka Old Town SC/ST area and AD colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

: M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

reance : BBMP/EE/YNK.D/W.O/153/2019-20

: 05-12-19

: Cement Concrete Pavement

ize : 150X150X150 mm

age : M30 / 7 Days Compressive Strength

IS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 10/12/2019

ification fark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
ent Concrete Pavement	M30	03/12/2019	10/12/2019	151.90 X 149.70 X 149.10	22740	8.286	572.3	25.2	25.5
ent Concrete Pavement	M30	03/12/2019	10/12/2019	149.66 X 150.27 X 151.93	22489	8.614	599.3	26.6	
ent Concrete Pavement	M30	03/12/2019	10/12/2019	151.06 X 149.05 X 151.00	22515	8.708	558.6	24.8	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-03-18-06 **Date: 10/12/2019**

: Improvements to Roads and Drains at Yelahanka Old Town SC/ST area and AD colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

: M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

rence : BBMP/EE/YNK.D/W.O/153/2019-20

: 05-12-19

: Cement Concrete Pavement

ize : 150X150X150 mm

ge : M30 / 7 Days Compressive Strength

IS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 10/12/2019

ification lark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
nt Concrete Pavement	M30	03/12/2019	10/12/2019	151.39 X 150.66 X 150.19	22809	8.286	578.0	25.3	25.6
ent Concrete Pavement	M30	03/12/2019	10/12/2019	149.87 X 150.29 X 150.15	22524	8.614	607.8	27.0	
ment Concrete Pavement	M30	03/12/2019	10/12/2019	151.68 X 150.29 X 150.94	22796	8.708	555.1	24.4	

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2020-01-10-33

Date: 31/12/2019

Project Name : Improvements to Roads and Drains at Yelahanka Old Town SC/ST area and AD colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/153/2019-20

Date of Receipt : 05-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/12/2019	31/12/2019	151.97 X 151.32 X 149.98	22996	8.104	777.7	33.8	33.4
2	Cement Concrete Pavement	M30	03/12/2019	31/12/2019	149.30 X 149.99 X 150.15	22394	8.901	737.4	32.9	
3	Cement Concrete Pavement	M30	03/12/2019	31/12/2019	150.51 X 150.60 X 149.19	22667	8.069	757.7	33.4	

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Quality Manager

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